

Appl. No. 10 511 394

Amtd. dated January 17, 2006

Reply to Office action mailed September 14, 2006

Claims 9 to 25 are pending and under consideration. This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS SHOWING AMENDMENTS TO THE CLAIMS:

Claims 1- 8 (Canceled)

Claim 9. (**Currently amended**) A thermoplastic flame retardant resin composition comprising:

(A) about 40 to 95 parts by weight of a styrenic resin;

(B) about 5 to 60 parts by weight of a polyphenylene ether;

(C) about 0.1 to 40 parts by weight of a rubber modified polystyrene styrenic graft copolymer resin based on 100 parts by weight of the sum of (A) and (B) wherein said rubber modified polystyrene graft copolymer resin is comprised of about 40 to 65 % by weight of a rubber and 60 to 35 % by weight of a polystyrene styrenic copolymer resin which contains about 0. 1 to 8 % by weight of acrylonitrile or methacrylonitrile and about 92 to 99.9 % of an aromatic vinyl styrenic monomer excluding rubber ~~wherein the vinyl monomer is styrene, α -methyl styrene, or p-methyl styrene~~ ; and

(D) about 5 to 30 parts by weight of a phosphorous-containing compound ~~wherein the phosphorous-containing compound in the thermoplastic flame retardant resin composition consists essentially of~~ an aromatic phosphoric acid ester compound based on 100 parts by weight of the sum of (A) and (B).

Claim 10. (Previously presented) The thermoplastic flame retardant resin composition as defined in claim 9, wherein said styrenic resin (A) is selected from the group consisting of polystyrene resin, rubber modified polystyrene resin and a mixture thereof.

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Claim 11. (Previously presented) The thermoplastic flame retardant resin composition as defined in claim 10, wherein said styrenic resin (A) is polystyrene.

Claim 12. (Previously presented) The thermoplastic flame retardant resin composition as defined in claim 10, wherein said styrenic resin (A) is a rubber modified polystyrene resin.

Claim 13. (Currently amended) The thermoplastic flame retardant resin composition as defined in claim 9, wherein said polystyrene styrenic copolymer resin contains about 0. 1 to 8 % by weight of acrylonitrile excluding rubber.

Claim 14. (Currently amended) The thermoplastic flame retardant resin composition as defined in claim 9, wherein said polystyrene styrenic copolymer resin contains about 0. 1 to 8 % by weight of methacrylonitrile excluding rubber.

Claim 15. (Currently amended) The thermoplastic flame retardant resin composition as defined in claim 9, wherein said polystyrene styrenic copolymer resin further comprises less than 40 parts by weight of a monomer selected from the group consisting of acrylic acid, methacrylate, maleic anhydride, and N-substituted maleimide, per 100 parts by weight of said rubber modified styrenic resin.

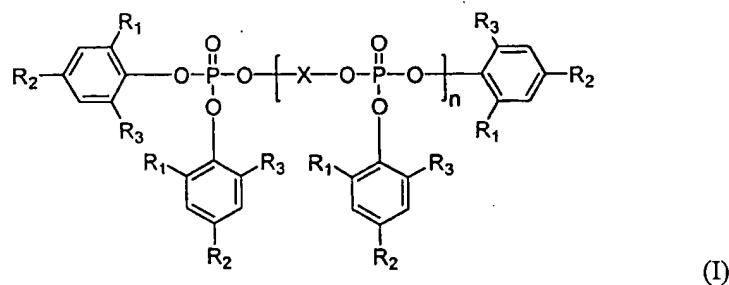
Claim 16. (Currently amended) The thermoplastic flame retardant resin composition as defined in claim 9, wherein said polystyrene styrenic copolymer resin contains 0.1 to 5 % by weight of acrylonitrile excluding rubber.

Claim 17. (Currently amended) The thermoplastic flame retardant resin composition as defined in claim 9, wherein said polystyrene styrenic copolymer resin contains 0.1 to 5 % by weight of methacrylonitrile excluding rubber.

Claim 18. (Currently amended) The thermoplastic flame retardant resin composition as defined in claim 9, wherein ~~said polystyrene copolymer resin contains 95 to 99.9 % by weight of an aromatic vinyl monomer excluding rubber wherein the styrene~~ the styrenic monomer is styrene, α -methyl styrene, or p-methyl styrene.

Claim 19. (Currently amended) The thermoplastic flame retardant resin composition as defined in claim 9, wherein ~~said styrenic monomer is styrene~~ styrene ~~styrene copolymer resin contains 95 to 99.9 % by weight of styrene~~ ~~excluding rubber~~ .

Claim 20. (Currently amended) The thermoplastic flame retardant resin composition as defined in claim 9, wherein said aromatic phosphoric acid ester (D) is represented by following formula (I):



wherein R₁, R₂ and R₃ independently of one another are hydrogen or C₁₋₄ alkyl; X is a C₆₋₂₀ aryl group or alkyl-substituted C₆₋₂₀ aryl group that are derivatives from a dialcohol derivative wherein the dialcohol derivative is resorcinol, hydroquinol, bisphenol-A or bisphenol-S; and n is 0~4.

Claim 21. (Previously presented) The thermoplastic flame retardant resin composition as defined in claim 9, further comprising an anti-dripping agent, an impact modifier, an inorganic filler, a heat stabilizer, an anti-oxidants, a light stabilizer, a pigment, and/or dye.

Claim 22. (Currently amended) A thermoplastic flame retardant resin composition comprising:

- (A) about 40 to 95 parts by weight of a styrenic resin;
- (B) about 5 to 60 parts by weight of a polyphenylene ether;
- (C) about 0.1 to 40 parts by weight of a rubber modified polystyrene copolymer resin based on 100 parts by weight of the sum of (A) and (B) wherein said rubber modified polystyrene graft copolymer resin is comprised of about 40 to 65 % by weight of a rubber and 60 to 35 % by weight of a polystyrene copolymer resin which contains about 0. 1 to 8 % by weight of acrylonitrile and about 92 to 99.9 % of styrene excluding rubber; and
- (D) about 5 to 30 parts by weight of a phosphorous-containing compound
wherein the phosphorous containing compound in the resin composition consists essentially of
an aromatic phosphoric acid ester compound based on 100 parts by weight of the sum of (A) and (B).

Claim 23. (Previously presented) The thermoplastic flame retardant resin composition as defined in claim 22, wherein said polystyrene copolymer resin contains 0.1 to 5 % by weight of acrylonitrile and about 95 to 99.9% by weight of styrene excluding rubber.

Claim 24. (New) The thermoplastic flame retardant resin composition as defined in claim 9 wherein the phosphorous containing compound (D) in the resin composition consists of an aromatic phosphoric acid ester compound based on 100 parts by weight of the sum of (A) and (B).

Claim 25. (New) A thermoplastic flame retardant resin composition comprising:

- (A) about 40 to 95 parts by weight of a styrenic resin;
- (B) about 5 to 60 parts by weight of a polyphenylene ether;
- (C) about 0.1 to 40 parts by weight of a rubber modified styrenic graft

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copolymer resin based on 100 parts by weight of the sum of (A) and (B) wherein said rubber modified graft copolymer resin is comprised of about 40 to 65 % by weight of a rubber having an average particle size of from 0.1 to 0.4 μm and 60 to 35 % by weight of a styrenic copolymer resin which contains about 0.1 to 8 % by weight of acrylonitrile or methacrylonitrile and about 92 to 99.9 % of styrenic monomer excluding rubber; and

(D) about 5 to 30 parts by weight of an aromatic phosphoric acid ester compound based on 100 parts by weight of the sum of (A) and (B).